RESTRICTED CIRCULATION

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Agricultural Memorandum No 684

Weather and Otitis Media

L P Smith

The analysis used the following factors -

(a) 60 sets of 4 week morbidity data (C_M), mean weekly cases per 100,000

(b) Week previous cases as an infection factor (F)

(c) Mean over previous 12 weeks, excess of 70, as an immunity factor (M)

(d) Mean air minimum temperature at Kew and Speke over 4 weeks starting 3 days previous to morbidity data (N).

The regression found was -

$$C_M = 58.4 + 0.32\ F - 0.47\ M - 2.95\ N$$

with a multiple correlation of 0.90

Tested over 39 independent sets of morbidity data the correlation between actual and estimated values was 0.88.

Any comments or suggestions on this paper should be referred to the author.

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November 1974.